DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	965R1	1204

Caltrans Metric

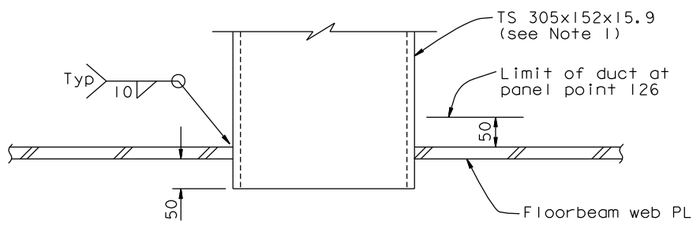
George Baker
REGISTERED ENGINEER - CIVIL

1-27-03
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George S. Baker — No. C57112 — Exp. 12/31/05 — CIVIL — STATE OF CALIFORNIA

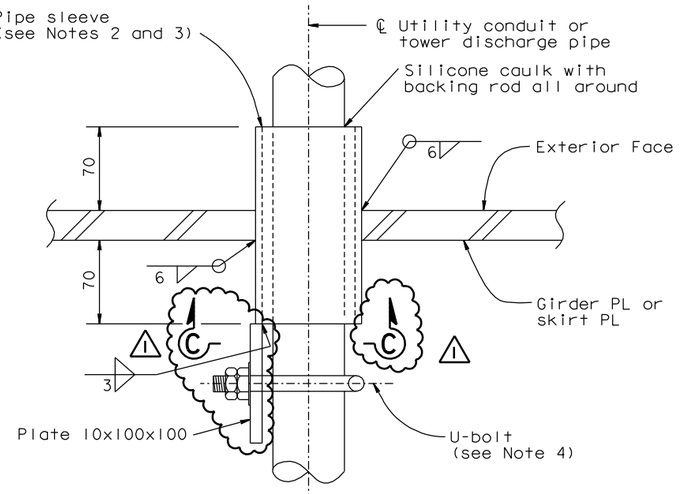
T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

To get to the web site, go to: http://www.dot.ca.gov



TYPICAL UTILITY DUCT DETAIL AT PIER E2 AND PANEL POINT 126

1:5

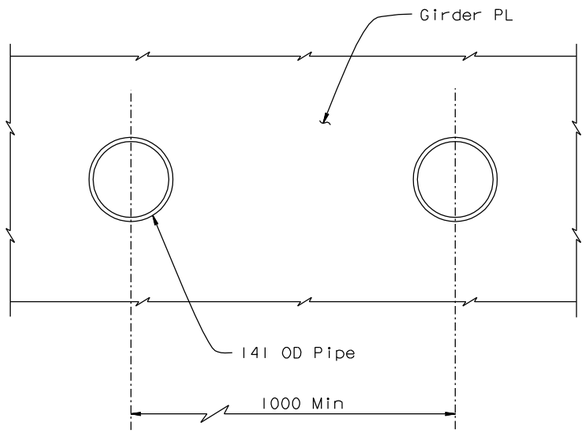


TYPICAL UTILITY CONDUIT AND TOWER DISCHARGE PIPE PENETRATION DETAIL

1:2.5

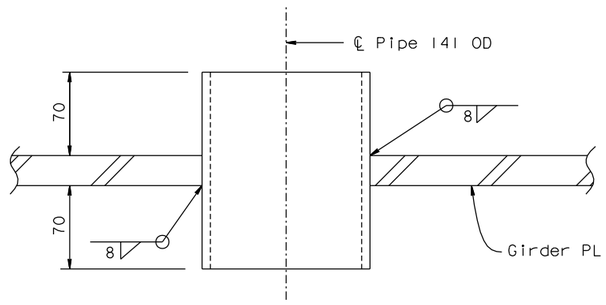
PIPE SLEEVE TABLE

Conduit Nominal size	Pipe sleeve Nominal size	Minimum Spacing (See Note 8)
27	51	150
41	64	200
53	76	250
63	89	300
78	102	500
91	127	1000
103	127	1000



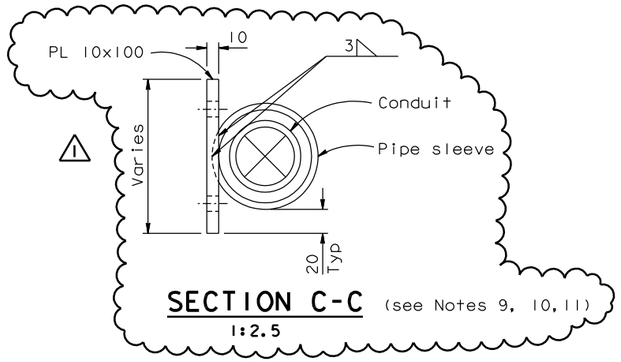
TYPICAL UTILITY CABLE PENETRATION DETAIL

1:5



SECTION B-B (see Note 5)

1:2.5



SECTION C-C (see Notes 9, 10, 11)

1:2.5

NOTES:

1. TS 305x152 at Pier E2 shall extend through all three webs of floorbeam E2.
2. All pipe sleeves shall be A53 GR B or an equivalent steel grade as approved by the Engineer and shall be detailed to accommodate actual utility conduit and pipe sizes. For utility conduit, pipe and cable sizes, see "Road Plans". For tower discharge pipe, see "Tower Drainage Details No.1" sheet.
3. For pipe sleeves sizes, see "Pipe Sleeve Table". Contractor shall be responsible for fit-up, support and sealing of pipes and conduits in the pipe sleeves. Contractor may select alternative pipe sleeve sizes to suit the actual conduits and pipes installed.
4. For conduit mounting details, see "Road Plans".
5. For mounting and sealing cables in pipe sleeves, see "Road Plans".
6. For conduit penetrations at panel point 41, see "Girder Transition Near Tower" sheets.
7. For conduit penetrations at utility platforms, see Typical Crossbeams Details" sheets.
8. Unless otherwise noted or approved by the Enginner pipe sleeves may not be located in the unreinfoced girder skin plates at less than the minimum spacing.
9. 10 mm plate welded to pipe sleeve to vary in width depending on O.D. of pipe.
10. Dimension and size of holes in plate depend on U-bolt size.
11. Edge of plate to align with inside edge of pipe sleeve.

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE					
MARK	DATE	REVISIONS DESCRIPTIONS	BY	CH'D	CCO#
1	05/06/08	BARRIER MODIFICATIONS	DT	AS	44

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___

Daniel D. Turner — REGISTERED PROFESSIONAL ENGINEER — No. C 65033 — Exp. 06/30/09 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY G. Baker	CHECKED T. Ho	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY S. Camo	CHECKED T. Ho	
QUANTITIES	BY C. Mauch	CHECKED D. Harrison	

R. Valizadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
Roya Valizadeh / Vong Toan / Y. Liu
SIGN OFF DATE 05/06/08

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

UTILITY DETAILS NO. 1

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
08/07/99	05/31/01	04/08/02	07/01/02	12/19/02					548R1	

100% PS&E

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